

Serial No. 09/782,945

March 15, 2006

Page 3

IN THE SPECIFICATION:

Please replace the paragraph beginning at page 1, line 1 with the following amended paragraph and heading:

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a continuation-in-part of an application filed June 3, 1999 under Serial No. 09/325,524, now Patent No. 6,403,750, and is also a continuation-in-part of the application Serial No. 09/680,828 filed October 6, 2000, which is a continuation-in-part of an application filed June 3, 1999 under Serial No. 09/325,524. applications are incorporated herein, in their entirety, by reference.

Please replace the paragraph beginning at page 47, line 9 with the following amended paragraph:

Fig. 3 is Fig. 2 is a schematic drawing of an apparatus for making cylinders of ceramic composites from photo-curable pre-ceramic polymers.

Serial No. 09/782,945

March 15, 2006

Page 4

Please delete the four paragraphs beginning at page 47, line 14 until page 48, line 6, as follows:

~~Fig. 5 is a photograph of a photo-cured pre-ceramic polymer matrix coupon according to the present invention.~~

~~Fig. 6 is a SEM Photomicrograph at 35X of a fired SiC matrix test coupon prepared from a photo-cured pre-ceramic PECS polymer.~~

~~Fig. 7 is a SEM Photomicrograph at 350X of a fired SiC matrix test coupon prepared from photo-cured pre-ceramic PEC polymer.~~

~~Fig. 8 is a SEM Photomicrograph at 1500X of a fired SiC matrix test coupon prepared from photo-cured pre-ceramic PECS polymer.~~

Please replace the paragraph beginning at page 51, line 18 with the following amended paragraph:

Referring to Fig. 1, ~~in conjunction with Fig. 2~~ an apparatus 10 for making flat plates of ceramic composites from photo-curable pre-ceramic polymers includes a frame 11 with a process bed, a set of fabric rollers 12, a set of guide rollers 13, a set of drive rollers 14, a drive motor 15, a compression roller 16, a process head 17 having a light-emitting lamp, a furnace 18, a covering 19 and a source of inert gas and a control panel. The source of inert gas provides an inert atmosphere.

Serial No. 09/782,945

March 15, 2006

Page 5

Please replace the paragraph beginning at page 52, line 9 with the following amended paragraph:

Referring to ~~Fig. 3 in conjunction with Fig. 4~~ Fig. 2, an apparatus 110 for making cylinders cylinders of ceramic composites from photo-curable pre-ceramic polymers includes a dry nitrogen chamber 111, a fabric roller 112, an applicator 113 of a photo-curable pre-ceramic polymer, a take-up mandrel 114, a pressure loaded compaction roller 115, a light-emitting lamp 116 and a consolidation and pyrolysis zone 117. The consolidation and pyrolysis zone 117 has a heater 118. The fabric roller dispenses woven ceramic fabric.